

AIDS IN KENTUCKY

September 30, 1999

Kentucky HIV/AIDS Quarterly Report

Data Sources and Limitations

The HIV/AIDS Quarterly Report contains cases diagnosed and reported to the Kentucky Department for Public Health, HIV/AIDS Program through September 30, 1999.

According to state regulation 902 KAR 2:020, Section 7, physicians, hospitals, laboratories and counseling and testing sites are required to report HIV and AIDS cases to the Kentucky Department for Public Health within five business days of diagnosis. AIDS cases are reported by name, while HIV cases are reported by initials. HIV tests can be either anonymous or confidential; however, only those confidential HIV positive cases are reported to the Kentucky Department for Public Health.

HIV and AIDS cases who reside in the Kentucky counties of Bullitt, Henry, Jefferson, Oldham, Shelby, Spencer and Trimble are reported to an HIV/AIDS surveillance technician at the Jefferson County Health Department. All other HIV and AIDS cases are reported to an HIV/AIDS surveillance technician at the Kentucky Department for Public Health. Case information from both sites is combined at the Kentucky Department for Public Health to produce this report. The epidemiologist who compiles the HIV/AIDS quarterly report does not have access to personal identifying information.

When HIV and AIDS cases are reported, they are entered into separate databases. For example, the AIDS database contains all AIDS cases reported both living and deceased since 1982. The HIV data set, however, contains only those cases living with HIV who have not developed AIDS. The HIV database has been maintained since 1990.

This HIV database is limited because it only contains those cases currently living with HIV and can not be used to derive a proper rate. Also, without HIV name reporting we can never be completely sure if duplicates exist in the database.

Another limitation to the HIV data set is the high number for which the mode of exposure or risk factor is undetermined. As of September 30, 1999, 33% of HIV cases are listed with an undetermined mode of exposure.

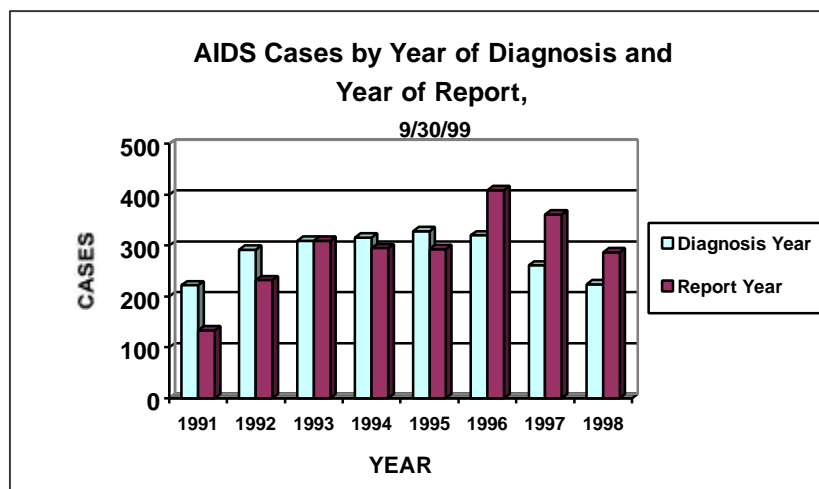
Cumulative Kentucky HIV/AIDS Cases as of 9/30/99	
<u>Type of Case</u>	<u>Number of Cases</u>
AIDS cases both living and deceased	3033
Cases living with AIDS	1440
Cases living with HIV who have not developed AIDS	2570

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AIDS CASES BY YEAR OF DIAGNOSIS												
Characteristics	1982-86	1987-91	1992	1993	1994	1995	1996	1997	1998	1999	Total	% ⁽¹⁾
<u>GENDER</u>												
Male	91	707	261	281	266	290	269	219	186	84	2654	88%
Female	6	74	31	28	50	38	51	42	38	21	379	12%
TOTAL	97	781	292	309	316	328	320	261	224	105	3033	100%
<u>AGE AT DIAGNOSIS</u>												
<13	0	12	0	1	1	3	5	0	1	1	24	1%
13-19	2	10	1	1	2	4	1	1	0	1	23	1%
20-29	25	209	56	56	65	50	44	36	28	15	584	19%
30-39	45	353	145	150	148	166	161	128	107	46	1449	48%
40-49	15	123	70	82	79	78	83	78	66	30	704	23%
>49	10	74	20	19	21	27	26	18	22	12	249	8%
TOTAL	97	781	292	309	316	328	320	261	224	105	3033	100%
<u>RACE</u>												
White	82	607	219	230	208	228	206	156	137	62	2135	70%
African-American	14	165	69	78	100	94	110	91	78	43	842	28%
Other	1	9	4	1	8	6	4	14	9	0	56	2%
TOTAL	97	781	292	309	316	328	320	261	224	105	3033	100%
<u>RISK</u>												
MSM ⁽²⁾	65	522	190	191	175	190	163	137	107	54	1794	59%
IDU ⁽³⁾	8	73	38	38	52	51	50	41	36	15	402	13%
MSM AND IDU	9	54	19	21	16	23	13	16	12	3	186	6%
Hemophiliac	6	37	13	7	6	7	2	1	0	0	79	3%
Heterosexual ⁽⁴⁾	3	45	25	40	51	36	63	30	32	17	342	11%
Transfusion	3	25	2	3	5	2	2	0	0	0	42	1%
Perinatal	0	7	0	1	1	3	5	0	1	1	19	1%
Undetermined ⁽⁵⁾	3	18	5	8	10	16	22	36	36	15	169	6%
TOTAL	97	781	292	309	316	328	320	261	224	105	3033	100%

- (1) Percentages may not total 100 due to rounding. (2) MSM = Men having Sex with Men (3) IDU = Injecting Drug User
 (4) "Heterosexual" Includes persons who have had heterosexual contact with a person with HIV or at risk for HIV.
 (5) "Undetermined" refers to persons whose mode of exposure to HIV is unknown. This includes persons who are under investigation, dead, lost to follow-up, refused interview, and persons whose mode of exposure remains undetermined after investigation.



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CUMULATIVE AIDS CASES BY RISK, RACE, AND GENDER, 9/30/99							
RISK		White		African Am.		Other	
		No.	% ⁽¹⁾	No.	% ⁽¹⁾	No.	% ⁽¹⁾
M A L E	MSM	1462	75%	314	47%	18	40%
	IDU	124	6%	156	23%	13	29%
	MSM AND IDU	119	6%	63	9%	4	9%
	Hemophiliac	69	4%	9	1%	0	0%
	Heterosexual	87	4%	59	9%	5	11%
	Transfusion/Transplant	24	1%	4	1%	0	0%
	Perinatal	3	0%	4	1%	0	0%
	Undetermined	51	3%	61	9%	5	11%
TOTAL		1939	100%	670	100%	45	100%
F E M A L E	IDU	49	25%	55	32%	5	45%
	Hemophiliac	1	1%	0	0%	0	0%
	Heterosexual	111	57%	75	44%	5	45%
	Transfusion/Transplant	10	5%	4	2%	0	0%
	Perinatal	7	4%	5	3%	0	0%
	Undetermined	18	9%	33	19%	1	9%
	TOTAL	196	100%	172	100%	11	100%

(1) Percentages may not total 100% due to rounding.

KENTUCKY AIDS CASES, LIVING AND DECEASED, AS OF 9/30/99				
Diagnosis Year	Total Cases	Living	Deceased	Case Fatality Rate ⁽¹⁾
1982	3	0	3	100%
1983	6	0	6	100%
1984	15	1	14	93%
1985	32	0	32	100%
1986	41	1	40	98%
1987	72	6	66	92%
1988	126	5	121	96%
1989	169	20	149	88%
1990	192	26	166	86%
1991	222	42	180	81%
1992	292	74	218	75%
1993	309	110	199	64%
1994	316	165	151	48%
1995	328	222	106	32%
1996	320	253	67	21%
1997	261	217	44	17%
1998	224	199	25	11%
1999	105	99	6	6%
TOTAL	3033	1440	1593	53%

(1) The case fatality rate is the percentage of AIDS cases diagnosed in a year which are deceased.

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CUMULATIVE AIDS STATISTICS FOR KENTUCKY AND THE UNITED STATES

KENTUCKY AIDS CASES REPORTED AS OF 9/30/99		
Characteristics	Total	% ⁽¹⁾
GENDER		
Male	2,654	88%
Female	379	12%
Unknown	0	0%
TOTAL	3,033	100%
AGE AT DIAGNOSIS		
<13	24	1%
13-19	23	1%
20-29	584	19%
30-39	1,449	48%
40-49	704	23%
>49	249	8%
Unknown	0	0%
TOTAL	3,033	100%
RACE		
White	2,135	70%
African-American	842	28%
Other	56	2%
Undetermined	0	0%
TOTAL	3,033	100%
RISK		
MSM ⁽²⁾	1,794	59%
IDU ⁽³⁾	402	13%
MSM AND IDU	186	6%
Hemophiliac	79	3%
Heterosexual	342	11%
Transfusion	42	1%
Perinatal	19	1%
Undetermined	169	6%
TOTAL	3,033	100%

(1) Percentages may not always total 100% due to rounding.

(2) MSM = Men Having Sex with Men

(3) IDU = Injecting Drug User

U.S. AIDS CASES ⁽⁴⁾ REPORTED AS OF 6/30/99		
Characteristics	Total	% ⁽¹⁾
GENDER		
Male	592,552	83%
Female	118,789	17%
Unknown	3	0%
TOTAL	711,344	100%
AGE AT DIAGNOSIS		
<13	8,596	1%
13-19	3,564	1%
20-29	120,773	17%
30-39	319,947	45%
40-49	183,195	26%
>49	75,266	11%
Unknown	3	0%
TOTAL	711,344	100%
RACE		
White	311,377	44%
African-American	262,317	37%
Other	136,722	19%
Undetermined	928	0%
TOTAL	711,344	100%
RISK		
MSM ⁽²⁾	334,073	47%
IDU ⁽³⁾	179,228	25%
MSM AND IDU	45,266	6%
Hemophiliac	5,243	1%
Heterosexual	70,582	10%
Transfusion	8,806	1%
Perinatal	7,828	1%
Undetermined	60,318	8%
TOTAL	711,344	100%

(4) U.S. Cases from Centers for Disease Control and Prevention. *HIV/AIDS Surveillance Report*, 1999;11 (No. 1).

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AIDS CASES AND RATES BY YEAR OF DIAGNOSIS AND AREA DEVELOPMENT DISTRICT OF RESIDENCE AT TIME OF DIAGNOSIS												
DISTRICT	CASES & RATES ⁽¹⁾	<1992	1992	1993	1994	1995	1996	1997	1998 ⁽²⁾	1999	TOTAL CASES ⁽³⁾	% ⁽⁴⁾
1. Purchase	Cases	32	10	16	10	8	10	7	11	5	109	4%
	Rate per 100,000		5.5	8.6	5.4	4.3	5.3	3.7	5.8			
2. Pennyrite	Cases	48	13	12	9	16	15	9	10	3	135	4%
	Rate per 100,000		6.3	5.8	4.4	7.7	7.3	4.2	4.7			
3. Green River	Cases	26	14	10	6	12	9	7	9	5	98	3%
	Rate per 100,000		7.0	4.9	2.9	5.9	4.4	3.4	4.4			
4. Barren River	Cases	38	14	8	8	10	12	6	6	3	105	3%
	Rate per 100,000		6.2	3.5	3.4	4.2	5.0	2.5	2.5			
5. Lincoln Trail	Cases	20	6	8	12	8	10	13	7	1	85	3%
	Rate per 100,000		2.8	3.6	5.3	3.5	4.3	5.5	3.0			
6. North Central	Cases	379	127	142	151	151	157	129	105	62	1403	46%
	Rate per 100,000		15.7	17.4	18.4	18.3	18.9	15.5	12.6			
7. Northern Kentucky	Cases	95	32	45	26	21	20	17	10	3	269	9%
	Rate per 100,000		9.3	12.8	7.3	5.8	5.5	4.6	2.7			
8. Buffalo Trace	Cases	6	1	0	3	1	2	4	5	1	23	1%
	Rate per 100,000		1.9	0.0	5.6	1.8	3.7	7.4	9.2			
9. Gateway	Cases	4	4	5	5	2	4	2	1	0	27	1%
	Rate per 100,000		5.8	7.2	7.1	2.8	5.6	2.8	1.4			
10. FIVCO	Cases	18	9	5	5	7	6	3	7	1	61	2%
	Rate per 100,000		6.7	3.7	3.7	5.2	4.4	2.2	5.2			
11. Big Sandy	Cases	13	3	1	2	5	2	5	2	1	34	1%
	Rate per 100,000		1.8	0.6	1.2	3.0	1.2	3.0	1.2			
12. Kentucky River	Cases	8	3	1	4	4	1	2	3	1	27	1%
	Rate per 100,000		2.4	0.8	3.2	3.2	0.8	1.6	2.4			
13. Cumberland Valley	Cases	15	5	4	5	10	9	5	8	5	66	2%
	Rate per 100,000		2.2	1.7	2.2	4.3	3.9	2.1	3.4			
14. Lake Cumberland	Cases	9	2	5	5	9	5	2	5	0	42	1%
	Rate per 100,000		1.1	2.8	2.7	4.8	2.7	1.1	2.7			
15. Bluegrass	Cases	167	49	47	65	64	58	50	35	14	549	18%
	Rate per 100,000		8.0	7.6	10.4	10.1	9.1	7.8	5.4			
TOTAL CASES		878	292	309	316	328	320	261	224	105	3033	100%

(1) Rates are only listed for years of diagnosis 1992 - 1998. The rate for 1999 is not given due to incomplete data.

(2) Population statistics for 1997 were used to calculate the rate for 1998.

(3) Total AIDS Cases both Living and Deceased.

(4) Percentages may not always total 100% due to rounding.

Counties In Each Area Development District
1. Ballard, Calloway, Carlisle, Fulton, Graves, Hickman, McCracken, Marshall
2. Caldwell, Christian, Crittenden, Hopkins, Livingston, Lyon, Muhlenberg, Todd, Trigg
3. Daviess, Hancock, Henderson, McLean, Ohio, Union, Webster
4. Allen, Barren, Butler, Edmonson, Hart, Logan, Metcalfe, Monroe, Simpson, Warren
5. Breckinridge, Grayson, Hardin, Larue, Marion, Meade, Nelson, Washington
6. Bullitt, Henry, Jefferson, Oldham, Shelby, Spencer, Trimble
7. Boone, Campbell, Carroll, Gallatin, Grant, Kenton, Owen, Pendleton
8. Bracken, Fleming, Lewis, Mason, Robertson
9. Bath, Menifee, Montgomery, Morgan, Rowan
10. Boyd, Carter, Elliott, Greenup, Lawrence
11. Floyd, Johnson, Magoffin, Martin, Pike
12. Breathitt, Knott, Lee, Leslie, Letcher, Owsley, Perry, Wolfe
13. Bell, Clay, Harlan, Jackson, Knox, Laurel, Rockcastle, Whitley
14. Adair, Casey, Clinton, Cumberland, Green, McCreary, Pulaski, Russell, Taylor, Wayne
15. Anderson, Bourbon, Boyle, Clark, Estill, Fayette, Franklin, Garrard, Harrison
Jessamine, Lincoln, Madison, Mercer, Nicholas, Powell, Scott, Woodford

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